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NOTICE OF ALLOWANCE AND FEE(S) DUE

45200

7590

09/22/2009

K&L Gates LLP 1900 MAIN STREET, SUITE 600 IRVINE, CA 92614-7319 EXAMINER

ALSTRUM ACEVEDO, JAMES HENRY

ART UNIT PAPER NUMBER

1616 DATE MAILED: 09/22/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,734	11/21/2003	Solomon S. Steiner	1951300.00060	3538

TITLE OF INVENTION: A METHOD FOR DELIVERY OF MONOMERIC OR DIMERIC INSULIN COMPLEXED TO DIKETOPIPERAZINE

MICROPARTICLES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	12/22/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
45200	7590 09/22/	/2000	have	its own certificate of	f mailing or transmission.	ent of formal drawing, must	
45200 K&L Gates LL 1900 MAIN STE IRVINE, CA 920	P REET, SUITE 600	2009	I her State addr trans	Certify that this as Postal Service with essed to the Mail Semitted to the USPTO	icate of Mailing or Trans Fee(s) Transmittal is bein h sufficient postage for fir top ISSUE FEE address 0 (571) 273-2885, on the o	smission g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.	
						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	Α	TTORNEY DOCKET NO.	CONFIRMATION NO.	
10/719,734 TITLE OF INVENTIO MICROPARTICLES	11/21/2003 N: A METHOD FOR	DELIVERY OF MON	Solomon S. Steiner OMERIC OR DIMERIC	INSULIN COMPL	1951300.00060 EXED TO DIKETOPIP	3538 ERAZINE	
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nonprovisional	YES	\$755	\$300	\$0	\$1055	12/22/2009	
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
ALSTRUM ACEVEL	OO, JAMES HENRY	1616	514-003000				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	ND RESIDENCE DATA less an assignee is identi h in 37 CFR 3.11. Comp	'Indication form ed. Use of a Customer A TO BE PRINTED ON Tified below, no assignee	(1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attornisted, no name will be THE PATENT (print or type data will appear on the patent as substitute for filing and (B) RESIDENCE: (CITY)	ely, e firm (having as a megent) and the names news or agents. If no printed. e) etent. If an assignee assignment.	nember a 2of up to a name is 3is identified below, the contact is identified below, the contact is identified below.	locument has been filed for	
		4b permitted)	b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit care	se first reapply any	previously paid issue fee	oup entity Government shown above) eficiency, or credit any an extra copy of this form).	
NOTE: The Issue Fee and	s SMALL ENTITY statu d Publication Fee (if requ	is. See 37 CFR 1.27.	b. Applicant is no long	er claiming SMALL	ENTITY status. See 37 C		
interest as shown by the i							
Authorized Signature				Date			
Typed or printed name				Registration No.			
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 diapplication form to the tons for reducing this bur riginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the ONOT SEND FEES OR (on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 mi idual case. Any com r, U.S. Patent and Tr D THIS ADDRESS.	public which is to file (an nutes to complete, including ments on the amount of ti- ademark Office, U.S. Dep SEND TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and me you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450,	

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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K&L Gates LLP 1900 MAIN STREET, SUITE 600 IRVINE, CA 92614-7319			ALSTRUM ACEVEDO, JAMES HENRY		
			ART UNIT	PAPER NUMBER	
				1616	
			DATE MAILED: 09/22/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 173 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 173 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/719,734	STEINER ET AL.	
Notice of Allowability	Examiner	Art Unit	
	JAMES H. ALSTRUM ACEVEDO	1616	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	plication. If not include will be mailed in due	ed course. THIS
1. This communication is responsive to 7/23/09.			
2. The allowed claim(s) is/are 33 and 35-44 (now claims 1-11	<u>)</u> .		
 Acknowledgment is made of a claim for foreign priority until a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have Popies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have * Certified copies of the priority documents have Therefore the priority documents have The priority documents have The priority documents have * Certified copies of the priority documents have The priority documents have	be been received. be been received in Application No cuments have been received in this of this communication to file a reply	national stage applica	
4. A SUBSTITUTE OATH OR DECLARATION must be subminion INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	he header according to 37 CFR 1.121(d).	e Dack) Of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 			Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 12/20/2007 page 12 only 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendr 8. Examiner's Stateme 9. Other	(PTO-413), te ment/Comment	owance



Application No.

Information Disclosure Statement

Upon a review of the instant application it was noted that the last non-patent literature reference cited in the October 25, 2007 IDS on page 12 (i.e. sheet 11 of 14 of the IDS) did not list a date or year of publication. Based on a review of the cited reference (i.e. Moren, "Aerosols in Medicine, 2nd edition, Elsevier, pp 321-350) it was ascertained that the publication year was 1993. A signed/initialed copy of page 12 of the October 25, 2007 IDS that has been amended to state the publication year of the Moren reference is included with this notice of allowance.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance, which incorporates herein by reference the reasons for allowance specified in the allowance mailed on August 28, 2008: Applicants newly filed IDS did not cite any references that changed the previous patentability determination. The closest prior art references were cited in Applicants' 10/31/2008 IDS (i.e. EP 0220958 (EP 558)) and 1/23/2009 IDS (i.e. WO 96/3614 (WO '614)). EP 558 is limited to the preparation of protein compounds comprising a peptide (e.g. pro-insulin) covalently bound to a dipeptide linker comprising proline, which may be appended to a diketopiperazine. There is no motivation to modify the pro-insulin compound suggested by EP 0220958 by the elimination of the dipeptide sequence followed by complexation with diketopiperazine microparticles. Applicants' declaration data demonstrates that the insulin/diketopiperazine particles produced according to the teachings of WO '614 are not the same, as evidenced by their drastically different insulin stability properties. Thus, the claimed method remains is free of the prior art, as determined previously in the allowance mailed on

Application/Control Number: 10/719,734

Art Unit: 1616

August 28, 2008. The rejections under 35 U.S.C. § 102(b) as being anticipated by Steiner et al.

Page 3

(WO 96/3614) and under § 103(a) over Steiner and Edelman (WO 96/3614) are withdrawn for

the aforementioned reasons. The obviousness-type double patenting rejection over USPN

6,071,497 (which derives from WO 96/3614) is also withdrawn for the aforementioned reasons.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to James H. Alstrum-Acevedo whose telephone number is (571)

272-5548. The examiner is on a flexible schedule, but can normally be reached on M-F

~10am~5:30 pm, and Saturdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Johann Richter can be reached on (571) 272-0646. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

J.H.A.-A.

Patent Examiner

Technology Center 1600

/Johann R. Richter/

Supervisory Patent Examiner, Art Unit 1616